

PTO/SB/08a (08-03)
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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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Substitute for form 1449/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete If Known			
		Application Number	10/661,519		
		Filing Date	September 15, 2003		
		First Named Inventor	BEHMANN		
		Art Unit	1723		
		Examiner Name	Not yet assigned		
Sheet	1	of	2	Attorney Docket Number	4320-516

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
AF		US - 4,688,401	05-26-1987	Okumura et al.	
AF		US - 6,284,135	09-04-2001	Ookata	

FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³	
		Country Code ² - Number ⁴ - Kind Code ⁵ (if known)						
AF		JP 04-250898		09-07-1992	Yanmar Diesel Engine Co., Ltd		✓	
1		JP62-144712 English language abstract of JP62-144712		08-27-1987	Toshiba Corporation		✓	
		JP 62-250908 English language abstract of JP62-250908		10-31-1987	Asahi Chem Inc Co Ltd			
		JP 05-285348 English language abstract of JP 05-285348		02-11-1993	Nitto Denko Corp.		✓ Machine	
		JP 06-285496 English language abstract of JP 06-285496		11-10-1994	Ebara Inflico Co Ltd. et al.		✓ Machine	
		JP 06-218361 English language abstract of JP 06-218361		08-09-1994	Kubota Corp.		✓ Machine	
		JP 06-218238 English language abstract of JP 06-218238		08-09-1994	Kubota Corp.		✓ Machine	
		JP 61-263605 English language abstract of JP 61-263605		11-21-1986	Toshiba Corp.			
	AF		English language abstract of JP 61-263605					

Examiner Signature		Date Considered	6/2/05
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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**INFORMATION DISCLOSURE
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Sheet 2

of

2

Complete if Known

Application Number	10/661,519
Filing Date	September 15, 2003
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Art Unit	1723
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Attorney Docket Number	4320-516

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS

Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AK		KAIYA et al., "Water Purification Using Hollow Fiber Microfiltration Membranes", 6 th World Filtration Congress, Nagoya, 1993, pp 813-816.	
		Declaration for Reissue Application executed June 14, 1999 in File history of U.S. Patent No. RE37,549	
		Amendment dated January 8, 1998 in file history of U.S. Patent No. 5,783,083, incorporated by reference in Declaration for Reissue Application executed June 14, 1999 in File history of U.S. Patent No. RE37,549	
		Declaration Under 37 CFR 1.132 of Steven Pedersen executed January 5, 1998 in file history of U.S. Patent No. 5,783,083, incorporated by reference in Declaration for Reissue Application executed June 14, 1999 in File history of U.S. Patent No. RE37,549	
		Declaration Under 37 CFR 1.132 of Kenneth Goodboy executed December 27, 1997 in file history of U.S. Patent No. 5,783,083, incorporated by reference in Declaration for Reissue Application executed June 14, 1999 in File history of U.S. Patent No. RE37,549	
		Office Action mailed November 5, 1999 in File history of U.S. Patent No. RE37,549	
		Supplemental Declaration for Reissue Application executed March 3, 2000 in File history of U.S. Patent No. RE37,549	
		Amendment dated March 4, 2000 in File history of U.S. Patent No. RE37,549	
		Supplemental Amendment dated March 20, 2000 in File history of U.S. Patent No. RE37,549	
		Office Action mailed March 31, 2000 in File history of U.S. Patent No. RE37,549	
		Amendment dated May 9, 2000 in File history of U.S. Patent No. RE37,549	
		Third Supplemental Declaration for Reissue Application executed May 8, 2000 in File history of U.S. Patent No. RE37,549	
		Notice of Allowability dated June 1, 2000 in File history of U.S. Patent No. RE37,549	
		Supplemental Declaration for Reissue Application executed November 7, 2000 in File history of U.S. Patent No. RE37,549	
		Preliminary Amendment dated November 6, 2000 in File history of U.S. Patent No. RE37,549	
		Office Action mailed February 8, 2001 in File history of U.S. Patent No. RE37,549	
		Amendment dated May 4, 2001 in File history of U.S. Patent No. RE37,549	
AK		Notice of Allowability dated May 29, 2001 in File history of U.S. Patent No. RE37,549	

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PTO/SB/08A (10-01)

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Sheet 1 of 1

Complete if Known

Application Number	10/661,519
Filing Date	September 15, 2003
First Named Inventor	BEHMANN
Group Art Unit	1723
Examiner Name	Not yet assigned
Attorney Docket Number	4320-516

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
AF		US- 5,141,031	08/25/1992	Baurmeister	
		US- 5,484,528	01/16/1998	Yagi et al.	
		US- 3,730,958	05/01/1973	Horres	
		US- 4,540,490	09/10/1985	Shibata et al.	
		US- 5,910,250	06/08/1999	Mahendran et al.	
		US- 3,740,223	11/28/1972	Dietzsch et al.	
AF		US- 6,402,955	06/11/2002	Ookata	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
AF		English language abstract of JP 07-000770	7/6/1995			
		English language abstract of JP 07-275665	10/24/95			
		English language abstract of JP 08-010585	1/19/96			
		English language abstract of JP 09-141063	2/19/97			
		English language abstract of JP 62-114609	3/19/97			
		JP 07-000770	1/6/1995	Toshiba Corp.		
		JP 07-275665	10/24/1995	Mitsubishi Rayon Co.		
		JP 02-164423	6/25/1990	Toshiba Corp.		
		English language abstract of JP 02-164423				
		JP 62-114609	5/26/1987	Ebara Corp.		
		JP 08-010585	1/16/1996	Ishigaki Mech Ind Co		
		JP 09-141063	6/3/1997	Mitsubishi Rayon Co.		
		WO96/07470	3/14/1996	Memtec Limited		
		WO93/23152	11/25/1993	Minntech Corp.		
		EP 0 734 758	10/2/1996	Mitsui Petro Chemical Industries Ltd		
		WO 93/02779	02/18/1993	Memtec Limited		
		WO 94/11094	05/26/1994	Zenon Environmental Inc.		
		EP 1 213 048	06/12/2002	Zenon Environmental Inc.		
AF		OE 100 45 227 C1	02/07/2002	Schaefer		

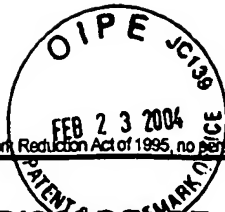
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 4

Complete if Known

Application Number	10/661,519
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First Named Inventor	BEHMANN
Group Art Unit	1723
Examiner Name	N/A
Attorney Docket Number	4320-516

U.S. PATENT DOCUMENTS

Examiner Initials *	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
RF		US- RE37,549 E	February 19, 2002	Mahendran et al	
		US- 5,480,533	Jan 2, 1996	Yamamori et al.	
		US- 5,607,593	Mar 4, 1997	Cote et al.	
		US- 5,209,852	May 11, 1993	Sunsaka et al	
		US- 5,248,424	Sep 28, 1993	Cote et al	
		US- 5,403,479	Apr 4, 1995	Smith et al.	
		US- 3,708,071	Jan 2, 1973	Crowley	
		US- 4,647,377	Mar 3, 1987	Miura	
		US- 4,756,875	Jul 12, 1988	Tajima et al.	
		US- 4,775,471	Oct 4, 1988	Nagai et al.	
		US- 4,075,100	Feb 21, 1978	Furuta et al.	
		US- 4,605,500	Aug 12, 1986	Takemura et al	
		US- 4,707,268	Nov 17, 1987	Shah et al.	
		US- 4, 876, 006	October 24, 1989	Ohkubo et al	
		US- 4,886,601	Dec 12, 1989	Iwatsuka et al.	
		US- 4,915,833	Apr 10, 1990	Iwatsuka et al	
		US- 5,151,191	Sep 29, 1992	Sunaoka et al	
		US- 5,192,456	Mar 9, 1993	Ishida et al.	
		US- 5,584,997	Dec 17, 1997	Yagihashi et al	
		US- 6,325,928 B1	12/4/2001	Pedersen et al	
AP		US- 6,319,411 B1	11/20/2001	Cote	
		US- 6,214,231	4/10/2001	Cote et al	
		US- 5,839,373	01/17/1997	Mahendran et al	

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
RF		JP 06-343,837	Dec 20, 1994	Ebara Inflico Co Ltd.		Machine
		EP 0 598 909 A1	June 1, 1994	Yamamori et al.		
AP		JP 62-144712	June 27, 1987	Yuichi et al.		
		English language abstract of JP62-144712				
		JP 61-192309	August 26, 1986	Toshiaki		

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Sheet

2

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AF		US- 6,193,890	2/27/2001	Pedersen et al	
		US- 6,303,035 B1	10/16/2001	Cote et al	
		US- 5,844,997	8/31/1999	Pedersen et al	
		US- 5,932,099	8/3/1999	Cote et al	
		US- 5,607,593	3/4/1997	Cote et al	
		US- 5,783,083	7/21/1998	Henshaw et al	
		US- 5,643,455	7/1/1997	Kopp et al	
		US- 5,607,593	3/4/1997	Cote et al	
		US- 6,045,898	4/4/2000	Cote et al	
		US- 5,647,988	7/15/1997	Kawanishi et al	
		US- 5,366,625	11/22/1994	Pedersen et al	
		US- 5,451,317	09/19/1995	Ishida et al.	
		US- 6,156,200	12/05/2000	Zha et al.	
		US- 6,555,005	04/29/2003	Zha et al.	

FOREIGN PATENT DOCUMENTS

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		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
AF		WO98/28066	07-02-1998	Memtec America Corporation		
		WO97/06880	02-27-1997	Zenon Environmental Inc.		
		JP 07-289860	07-11-1995	Toray Ind Inc.		Machine
		English language abstract of JP07-289860				
		JP 07-136471	05-30-1995	Toray Ind Inc.		Machine
		English language abstract of JP07-136471				
		JP 61-291007	12-20-1986	Toyobo Co. Ltd.		
		English language abstract of JP61-291007				
		JP 61-293504	12-24-1986	Kurita Water Ind Ltd.		
		English language abstract of JP61-293504				
		JP 61-167407	07-29-1986	Sumitomo Bakelite Co Ltd		
		English language abstract of JP61-167407				
		JP 61-242807	10-28-1986	Asahi Chem Ind Co Ltd		
		English language abstract of JP61-242607				

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Sheet 3 of 4

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		Country Code ² - Number ³ - Kind Code ³ (if known)				
HE		English language abstract of JP61-192309				
		JP 63-143905	June 16, 1988	Kunio et al.		✓
		English language abstract of JP63-143905				
		JP 06-343837	Dec 20, 1994	Giichi		
		English language abstract of JP 06-343837				
		JP 04-247295	Sep 3, 1992	Osamu et al.		
		English language abstract of JP 04-247295				
		JP 04-180821	June 29, 1992	Giichi et al.		
		English language abstract of JP 04-180821				
		JP 04-197487	July 17, 1992	Noboru et al.		
		English language abstract of JP 04-197487				
		JP 02-293093	May 8, 1989	Hidenori et al.		
		English language abstract of JP 02-293093				
		JP 07-136470	Nov 12, 1993	Kenji et al.		✓
		English language abstract of JP 07-136470				
		JP 08-215548	Aug 27, 1996	Kenji et al.		✓
		English language abstract of JP 08-215548				
		JP 61-107905	May 26, 1986	Makoto		
		English language abstract of JP 61-107905				
		JP 62-004408	Jan 10, 1987	Tomoniko		
		English language abstract of JP 62-004408				
		JP S63-38884	July 5, 1986	Kikuchi		✓
		JP 07-024272	Jan 27, 1995	Masumi et al.		
		English language abstract of JP 07-024272				
		JP 03-131324	June 4, 1991	Satoshi et al.		
		English language abstract of JP 03-131324				
		JP 62-201610	Sep 9, 1987	Yukio		
		English language abstract of JP 62-201610				
		JP 07-185268	July 25, 1995	Kashi et al.		✓
		English language abstract of JP 07-185268				
		JP 05-285349	Nov 2, 1993	Tetsuro et al.		✓
		English language abstract of JP 05-285349				
		JP 62-250908	Oct 31, 1987	Yokoyama		
		English language abstract of JP 62-250908				
		SU 1692626	Nov 23, 1991	Gimranov et al.		✓
		English language abstract of SU 1692626				

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		Group Art Unit	1723
		Examiner Name	N/A
Sheet 4 of 4	Attorney Docket Number	4320-516	

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
AC		"Direct Solid-Liquid Separation Using Hollow Fiber Membrane in an Activated Sludge Aeration Tank" by K. YAMAMOTO; M. HIASA; T. MAHMOOD AND T. MATSUO; Wat. Sci. Tech. Vol. 21, Brighton, pp. 43-54 (1989).	
		"Organic Stabilization And Nitrogen Removal In Membrane Separation Bioreactor For Domestic Wastewater Treatment" by C. CHIEMCHAISRI, Y.K. WONG, T. URASE AND K. YAMAMOTO, presented at Membrane Technology in Wastewater Management, Cape Town, March 2-5, 1992	
		"Optimal fiber spacing in externally pressurized hollow fiber module for solid liquid separation", by KIAT, YAMOTO et al., Water Science Technology Vol. 26, pp 1245-1254, (1992)	
		"Household membrane bioreactor in domestic wastewater treatment", by CHIEMCHAISRI et al. Water Science Technology Vol. 27, No. 1, pp 171-178, (1993)	
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PF		ZeeWeed 145 Product Data Sheet, June 1994.	

Examiner Signature		Date Considered	4/2/05
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